

Physics 281

EXPERIMENT 8 Diode Power Supply

Student _____ Date _____

Procedure 1

1a. Observe the AC waveform before the diode (sketch)

1b. Observe the rectified waveform across the load resistor. $V_{dc} = \underline{\hspace{2cm}}$, $V_{ac} = \underline{\hspace{2cm}}$

(sketch)

1c. Calculate the ripple factor.

Procedure 2

Capacitor $C = \underline{\hspace{2cm}}$. Observe the waveform across the load resistor (sketch)

Vdc = _____ , Vac = _____

Calculate the ripple factor for the circuit with filter.

Procedure 3

Capacitor C=_____. Observe the waveform across the load resistor (sketch)

Vdc = _____ , Vac = _____

Calculate the ripple factor for the circuit with filter.